

[REDACTED]

From: [REDACTED]
Sent: Monday, 8 November 2021 2:48 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: OFFICIAL: PA2000978-West Mokoan Solar Farm - RFI Response

Follow Up Flag: Follow up
Flag Status: Completed

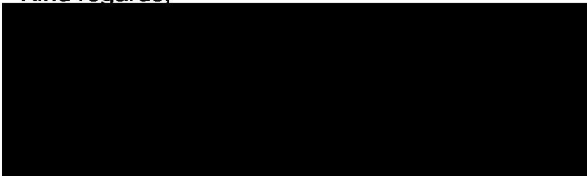
EXTERNAL SENDER: Links and attachments may be unsafe.

Hi [REDACTED]

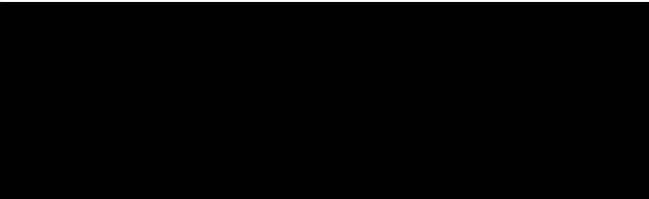
Please find our responses to your comments below in [blue](#).

Please let me know if you have any further questions,

Kind regards,



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From: [REDACTED]
Sent: Thursday, 28 October 2021 2:59 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: [EXTERNAL] RE: OFFICIAL: PA2000978-West Mokoan Solar Farm - RFI Response

Hi [REDACTED]

I've got a couple of quick follow up questions on the noise modelling.

1. Page 3 of your cover letter states *"There are only three instances where the Forecast indicates a 50% generation capacity, being 19 November and 10 and 11 December in the 6am – 6:59am time period. At all other times within the 'Night period', the Forecast shows capacity being less than 50%."* – do you know why these particular days would be forecast to have particularly high solar generation early in the day? I would have thought a couple of days around midsummer would make sense but these days are not grouped around then.

The generation profile in the 26/08/2021 RFI response (which uses PVsyst software) is estimated based on solar data acquired from SolarGIS (SolarGIS meteorological data, which is a widely used data source). We cannot comment on why these particular days are forecast as this was what the modelling tells us.

- a. Also, do we know how far above 50% the generation would be on these days?
The generation forecast in the 26/08/2021 RFI response shows the generation capacity throughout the day. We note that at no point is the generation capacity greater than 50% in the 'Night Period'.

- 2. Figure 2 is stated to not show generation exceeding 50% before 7am but it appears to show up to 85% generation capacity at 6:59am: Have I understood the graph correctly?
 - o The graph shows that 50% is reached during 6am - 6:59am ('Night Period') and 85% is reached during 7am - 7:59am ('Day Period') but this format appears to be misrepresenting the data .
 - o We have provided a re-formatted graph below that shows generation capacity at no greater than 50% during the 6am-7am period (within the 'Night Period').
 - o We also note that the profile does not account for daylight savings as PVsyst, the software used to create the profile doesn't take DST into account, and the winter time (non DST) is the reference. So we would expect the generation to occur an hour forward in the Oct-Feb period. PVsyst has an online forum which states that here:
<https://forum.pvsyst.com/viewtopic.php?t=372#:~:text=NB%3A%20As%20with%20most%20of,the%20Winter%20time%20as%20reference.&text=Now%20PVsyst%20fixes%20limits%20to,%2D1%20o%20%2B2%20hours.>

Graph from RFI response

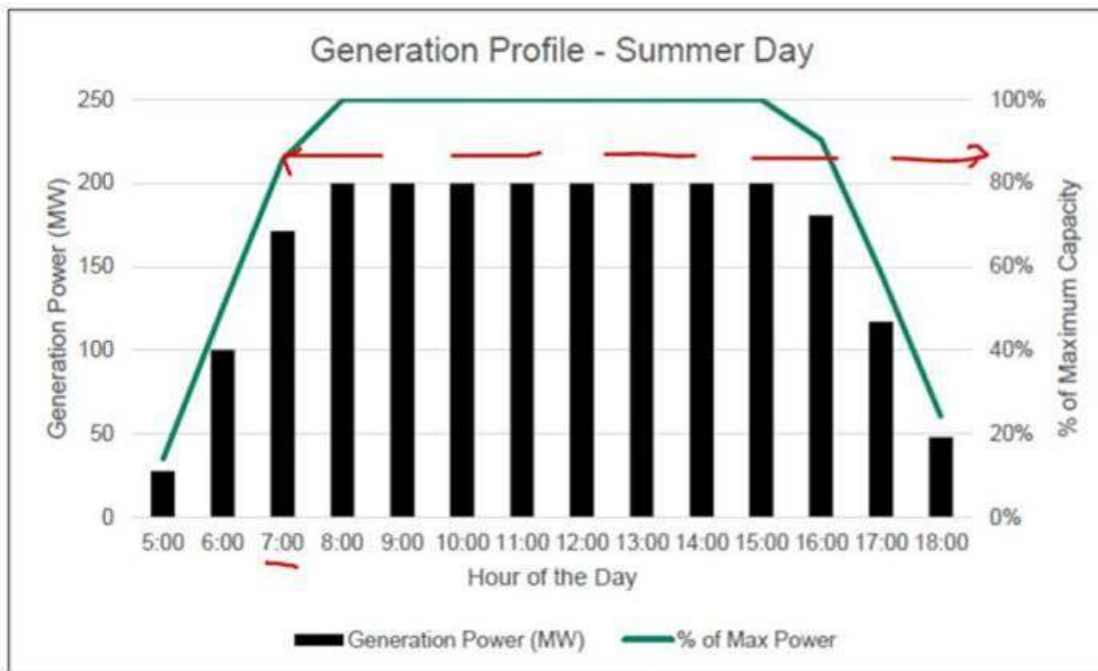
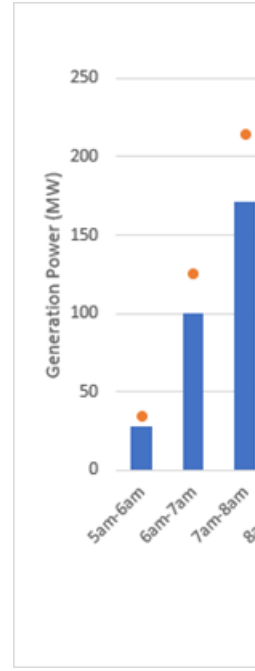


Figure 2 Generation Profile – Summer Day

Re-formatted graph



- 3. The cover letter (bottom of p3) talks about the cooling fans operating at 26% - 52% of their maximum speed, and consumes 1220-1469 VA when the inverter operates at 50% capacity. Are the Volt-Amperes referred to in the cover letter the same as the Amperes referred to on p8 of the Noise report? There, it says that "Acoustic power with fans at 50% and a current of 1130 A" will produce sound power of 82.8dBA.
 - a. If VA/A are comparable then the 1130A stated in the report would be less than the 1220-1469 VA stated in the cover letter and presumably the noise impacts have been underestimated
 - b. If up to 85% generation capacity is in fact predicted before 7am (see point 2) then the table in the cover letter suggests the fan would consume 2670 VA and would presumably produce more noise than modelled

No, they are different.

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- “A” is a unit that describes the amount of current, while “VA” is a unit that describes the rate of energy consumption.
- The 1130A refers to the amount of current being converted by the inverter from DC to AC.
- The 1220-2469 VA refers to the amount of energy being consumed by the inverter (mainly by the cooling fans).

Thanks in advance for your advice on this.

Thanks



I acknowledge the traditional Aboriginal owners of country throughout Australia and pay my respect to them, their culture and their Elders, past and present

OFFICIAL

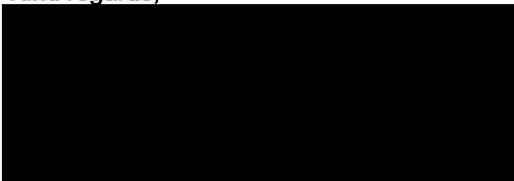
From: [Redacted]
Sent: Thursday, 28 October 2021 2:24 PM
To: [Redacted]
Cc: [Redacted]
Subject: RE: OFFICIAL: PA2000978-West Mokoan Solar Farm - RFI Response

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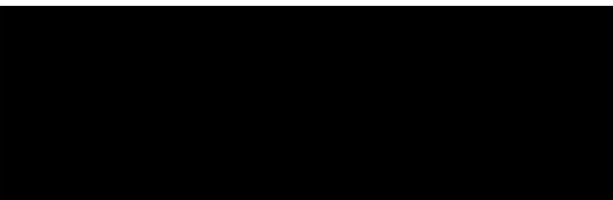
Not a problem [Redacted],

Yes, the document provided on 26/08/2021 titled “Early Works Strategy” replaces the Landscape Early Works plan dated 18/06/2021.

Kind regards,



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From: [Redacted]
Sent: Thursday, 28 October 2021 2:08 PM
To: [Redacted]